



All the major Reliability Growth models plus an analysis methodology to make the most of a limited data set for Repairable Systems Analysis...

RGA

Version 6
RGA.Reliasoft.com

RGA was developed with cooperation by the leading authority in reliability growth analysis, Dr. Larry Crow. It combines the most comprehensive and powerful reliability growth analysis software with fielded (repairable) system data analysis capabilities designed to make the most of a limited data set. The software is available in two versions: RGA Standard and RGA PRO, which provides advanced capabilities.

Data Types: RGA's data entry spreadsheets support both developmental testing data and fielded (repairable) systems data. This includes time-to-failure (continuous), success/failure (discrete) and reliability data, entered individually or in groups, cumulative or non-cumulative.

Statistical Models: RGA Standard supports all of the major reliability growth analysis models and RGA PRO incorporates statistical models for reliability growth projections and the analysis of fielded (repairable) systems data.

- Crow - AMSAA (N.H.H.P.) and Duane for continuous and discrete data.
- Crow Extended for continuous data with the required failure mode classifications and effectiveness factors. (RGA PRO only)
- Gompertz, Modified Gompertz, Logistic and Lloyd Lipow for discrete and reliability data.
- Power Law and Crow Extended for fielded (repairable) systems data. (RGA PRO only)

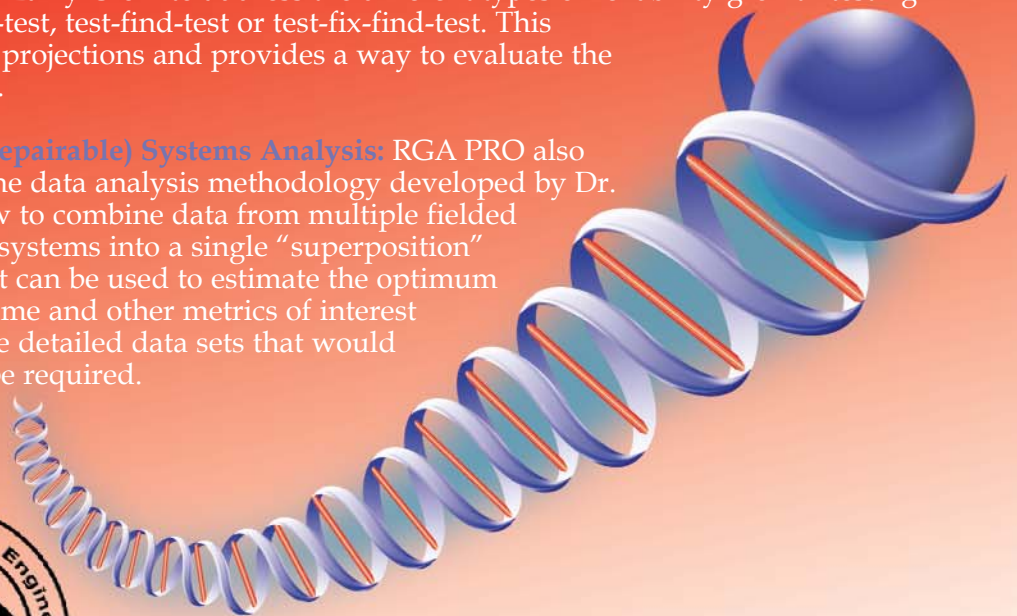
Reliability Growth Results and Plots: Depending on the data type and the reliability growth model, RGA automatically generates a variety of calculated results and plots, such as MTBF, Failure Intensity, Expected Number of Failures and more.

Reliability Growth Planning and the Crow Extended Model: RGA PRO provides full support for the enhanced data analysis methodology developed by Dr. Larry Crow to address the different types of reliability growth testing strategies that can be employed: test-fix-test, test-find-test or test-fix-find-test. This methodology enables reliability growth projections and provides a way to evaluate the reliability growth management strategy.

Part of ReliaSoft's Reliability Office suite, which also includes:

- Weibull++
- ALTA
- BlockSim (RBD+FTA)
- Xfmea and RCM++
- MPC 3 (MSG-3)
- QTMS (FRACAS)
- Lambda Predict
- RENO

Fielded (Repairable) Systems Analysis: RGA PRO also supports the data analysis methodology developed by Dr. Larry Crow to combine data from multiple fielded repairable systems into a single "superposition" system that can be used to estimate the optimum overhaul time and other metrics of interest without the detailed data sets that would normally be required.



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